

EXISTING SUBSTANDARD RAILINGS WITH POOR PERFORMANCE RECORDS SHALL BE UPGRADED OR REPLACED. SEE AASHTO "GUIDE SPECIFICATIONS FOR BRIDGE RAILINGS" OR CONTACT BRIDGE DEVELOPMENT SECTION FOR FURTHER INFORMATION.

INCORPORATE EXISTING VERT. CURB REINF. STEEL INTO NEW PARAPET.

EXIST. SLAB THICK.

NOTE: LONGIT. CONST. JOINTS IN OVERLAY MAY BE USED. LOCATION TO BE DETERMINED BY THE ENGINEER.

REMOVE TO SOUND CONC.  
1 1/2" MIN. CONC. OVERLAY

### CROSS SECT. THRU RDWY.

( LOOKING )

CORRUGATED POLYETHYLENE DRAINAGE PIPE. WIRE SECURELY TO REINFORCEMENT. 1 OR 2 TRANSVERSE BARS MAY BE CUT & DEFLECTED TO PLACE PIPE. IF CUT, RESTORE TO ORIGINAL POSITION & SPLICE TO NEW NO. 5 SPLICE BAR BEFORE POURING OVERLAY.

2" MIN. LAP  
ALL AROUND

EXIST. REINF.

2" LAP  
TYP.

CROSS SECT.

LONGIT. SECT.

### RUPTURED VOID REPAIR

CONCRETE MASONRY ANCHORS, TYPE S, NO. 5 BARS AT 1'-4" SPACING. MIN. PULLOUT LOAD = 16 KIPS. EMBED 5 1/2" IN CONCRETE.

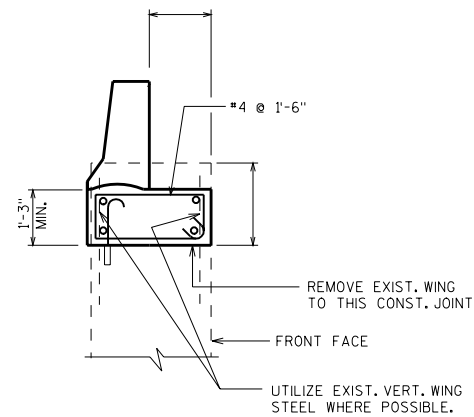
PRESERVE EXIST. VERT. RAIL POST & CURB BARS. INCORPORATE INTO NEW WORK. BEND AS NECESSARY TO PROVIDE 2" CLEAR COVER.

3/4"

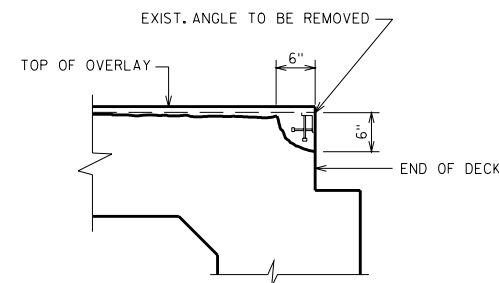
CONCRETE MASONRY ANCHORS, TYPE S, NO. 5 BARS, AT 8" SPACING. MIN. PULLOUT LOAD = 16 KIPS. EMBED 5 1/2" IN CONCRETE.

### SECTION THRU PARAPET ON BRIDGE

UNDER THE BID ITEM "CONCRETE MASONRY ANCHORS, TYPE S", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

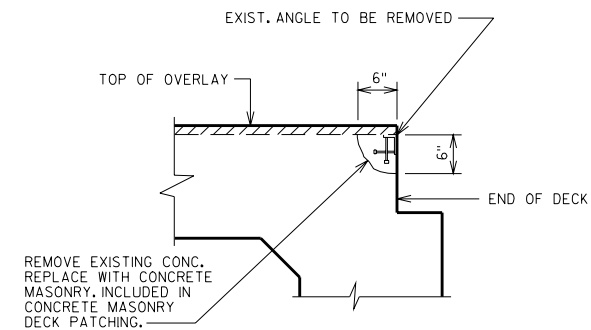


### SECTION THRU PARAPET ON WING



### SECTION AT END OF SLAB

CONCRETE OVERLAY



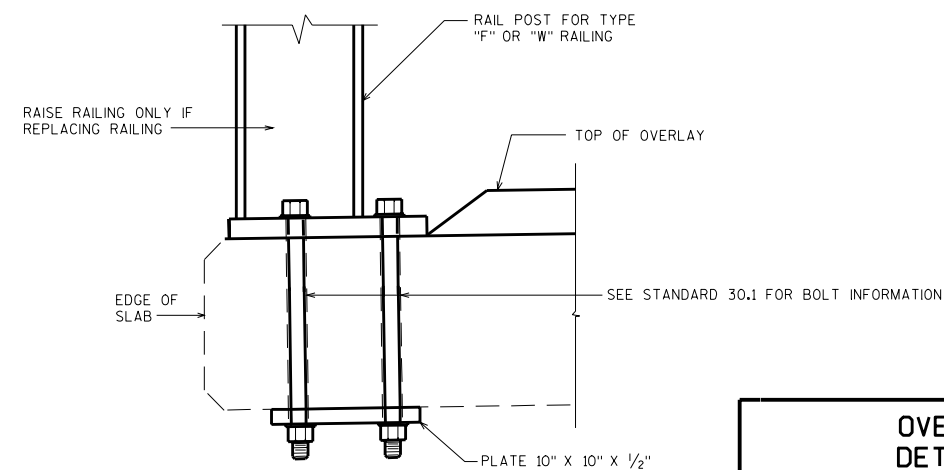
### SECTION AT END OF SLAB

ASPHALTIC OVERLAY

PROVIDE 2" MIN. COVER  
1" MIN. OR SOUND CONC.

UTILIZE EXIST. REINF.

### CURB DETAIL



### SECTION THRU RAILING

SHOWING ANCHORAGE IN SLAB

### OVERLAY DETAILS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DEVELOPMENT SECTION

APPROVED: \_\_\_\_\_

DATE:  
12/00